# Certificate III in Information, Digital Media and Technology – Networking (ICA30111)

The recommended Certificate III study plan has the following key features:

* The recommended study plan will take a new student with no previous computer networking experience 6 months full time to complete.
* There is a focus on understanding the fundamentals of computer hardware, windows desktop and network operating systems and how computer networks work.
* There is a focus on Industry certifications and students will have the opportunity to gain a number of Industry certificates as well as the TAFE one.

## Underpinning Skills and Knowledge

This qualification assumes no underpinning skills and knowledge.

## TAFE SA Suggested Study Plan for Full-Time Students

The following table shows the recommended study plan for the Certificate III in Information, Digital Media and Technology – Networking. This is one Semester (or 6 months) in length for Full-Time students\*.

|  |  |
| --- | --- |
| Certificate III in Information, Digital Media and Technology (ICA30111) | |
| Term 1 | **Term 2** |
| 3WHS^  3SWP^  3CUD^  3ITE | 3WSF  3PAC  3WNF |
| Semester | |
| 4IVM | |
| Skill Sets | |
| Gain the *Hardware Technicians Skill Set* | |
| Exit Qualifications | |
| Exit with *Certificate III in Information, Digital Media and Technology* | |

**Please Note: This program structure is subject to change.**

**Legend:**

\* The length of time for Part-Time students will depend on the number of subjects studied in each semester.

^ These subjects are delivered in an external/online mode. Some other subjects maybe available in an external/online or blended delivery mode please check this with your lecturer at time of registration.

**How subjects are delivered and their duration will be dependent on campus specific scheduling issues.**

**Please contact your local TAFE for specific course schedules.**

## Certificate III in Information, Digital Media and Technology Networking (ICA30111)

**To receive the Award students need to complete the following subjects**

|  |  |  |  |
| --- | --- | --- | --- |
| Subject | National Code | Competency Name | Pre- Requisite |
| 3SWP | **Sustainable Work Practices** | | |
| BSBSUS301A | Implement and monitor environmentally sustainable work practices | N/A |
| 3CUD | **Create User Documentation** | | |
| ICAICT301A | Create user documentation | N/A |
| 3WHS | **Workplace Health and Safety** | |  |
| BSBWHS304A | Participate effectively in WHS communication and consultative processes | N/A |
| 3ITE | **CISCO IT Essentials** | | |
| ICAICT202A | Work and communicate effectively in an IT environment | N/A |
| ICASAS301A | Run standard diagnostic tests |
| ICAICT302A | Install and optimise operating system software |
| ICASAS303A | Care for computer hardware |
| ICAICT303A | Connect internal hardware components |
| ICASAS306A | Maintain equipment and software |
| ICASAS304A | Provide basic system administration |
| 3WNF | **Windows Networking Fundamentals** | | |
| ICANWK305A | Install and manage network protocols | 3ITE |
| ICASAS307A | Install, configure and secure a small office home office network |
| ICANWK405A | Build a small wireless local area network |
| 3WSF | **Windows Server Fundamentals** | | |
| ICANWK304A | Administer network peripherals | 3ITE |
| ICANWK303A | Configure and administer a network operating system |
| 4IVM | **Install Virtual Machines** | | |
| ICANWK402A | Install and configure virtual machines for sustainable ICT | 3ITE |
| 3PAC | **Provide Advice to Clients** | |  |
| ICASAS305A | Provide IT advice to clients | N/A |

Legend: Underline – Co-requisite/Optional Pre-requisite

## Subject Descriptions

|  |  |
| --- | --- |
| Subject | Description |
| 3SWP | This subject measures current resource use and identifies improvements including the reduction of negative environmental impact caused by work practices. |
| 3CUD | This subject involves following processes to create user documentation that is clear to the target audience and which is easy to navigate. |
| 3WHS | This subject requires students to participate in workplace occupational health and safety (WHS) consultative processes. Consultative arrangements, also referred to as participative arrangements, give the students insights in WHS matters, and looks at the opportunity for stakeholders to participate in decisions that may impact on the WHS of the workplace. |
| 3ITE | This course uses the Cisco Networking Academy® IT Essentials curriculum which provides an introduction to the technical skills needed to help meet the growing demand for entry-level ICT professionals. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. Students will be eligible to receive the CISCO IT Essentials certificate. This course helps students prepare for the CompTIA A+ Essentials exam (220-801) and CompTIA A+ Practical Application exam (220-802). |
| 3WNF | This subject teaches students fundamental networking concepts. It covers the fundamentals of local area networking, defining networks with the OSI Model and understanding wired and wireless networks.  In addition it includes understanding Internet Protocol, implementing TCP/IP and working with networking services. It builds an understanding of Network Infrastructures, Network Hardware, and Protocols and Services. The subject is aligned to the Microsoft MTA 98 – 366 exam |
| 4IVM | This subject describes the performance outcomes, skills and knowledge required to develop and implement virtualisation technologies with the goal of providing a more sustainable information and communications technology (ICT) environment. This subject will introduce students to the concept of virtualization and virtualization products such as VMWare Workstation, Server, Player, MS Virtual PC, Hyper-V and Oracle Virtualbox. |
| 3WSF | This subject covers the introduction to understanding how to install a Windows Server 2012 R2, the various roles of Windows Server 2012 R2, and how Windows Server 2012 R2 performance and maintenance impacts a network. This subject is aligned to the Microsoft MTA 98-365 exam by covering Windows Server 2012 R2 installation, server roles, storage, and active directory infrastructure. It will provide students with a solid foundation of various networking topics allowing students to gain a strong understanding of Windows Server 2012 R2 administration concepts. |
| 3PAC | This subject describes the performance outcomes, skills and knowledge required to provide IT advice and support to clients, including the communication of comprehensive technical information. |

Students who complete the following competencies will be eligible to receive the Statement of Attainment for the following Skill Set.

## Hardware Technicians Skill Set

|  |  |  |  |
| --- | --- | --- | --- |
| Subject | National  Code | Competency Name | Pre-  Requisite |
| 3ITE | **CISCO IT Essentials** | | |
| ICAICT302A | Install and optimise operating system software | N/A |
| ICASAS301A | Run standard diagnostic tests |
| ICAICT303A | Connect internal hardware components |
| ICASAS306A | Maintain equipment and software |
| 3WNF | **Windows Network Fundamentals** | |  |
| ICASAS307A | Install, configure and secure a small office home office network | 3ITE |
| 3PAC | **Provide Advice to Clients** | |  |
|  | ICASAS305A | Provide IT advice to clients | N/A |